

Attached Table: R&D Purpose Plutonium Utilization Plan at JAEA throughout JFY 2022

Feb. 18th, 2022

JAEA

Owner	Stockpile amount (ton(s) of Put) <sup>*1</sup> (forecast as of the end of FY2021)	Purpose (Research and development by utilizing fast reactor) <sup>*2</sup>				
		Facility	Amount to be utilized (ton Put) <sup>*3</sup>			Estimated annual usage amount (ton Put/year) <sup>*4</sup>
			FY2022	FY2023	FY2024	
JAEA	3.6 <sup>*5</sup>	Experimental Fast Reactor "JOYO"	-	-	-	0.1
Amount of plutonium recovered through reprocessing (ton Put) <sup>*6</sup>			0	0	0	
Stockpile amount (ton Put)			3.6	3.6	3.6	

Details will be announced later as progress is made, such as when the JOYO starts operation.

Projections for the amounts of plutonium to be used from FY2025 and onwards

- FY2025: not fixed yet
- FY2026: not fixed yet
- FY2027-2030: not fixed yet

\*1 Total amount of plutonium (Put)

\*2 In addition to plutonium used for JOYO, the plutonium will be used for basic research on the treatment technology of spent fuel, plutonium stabilization studies, and other research and development activities within the scope of the purpose and amount permitted by R&D facilities.

\*3 Since the completion date of conformity to the new regulation standards for JOYO has not yet been determined, the amount of plutonium to be used for each fiscal year has not yet been decided as well, and is described as "-".

\*4 "Estimated annual usage amount" represents an annual average amount of plutonium contained in MOX fuel to be loaded into reactor during standard reactor operations.

\*5 Of the plutonium managed by JAEA, approximately 1.0t of plutonium recovered at the Tokai Reprocessing Plant under a service contract with electric power companies is not included in the amount mentioned above.

\*6 Since the Tokai Reprocessing Plant has entered into decommissioning stage, plutonium will no longer be recovered by reprocessing in the future.